Professional Military Education and Information Assurance

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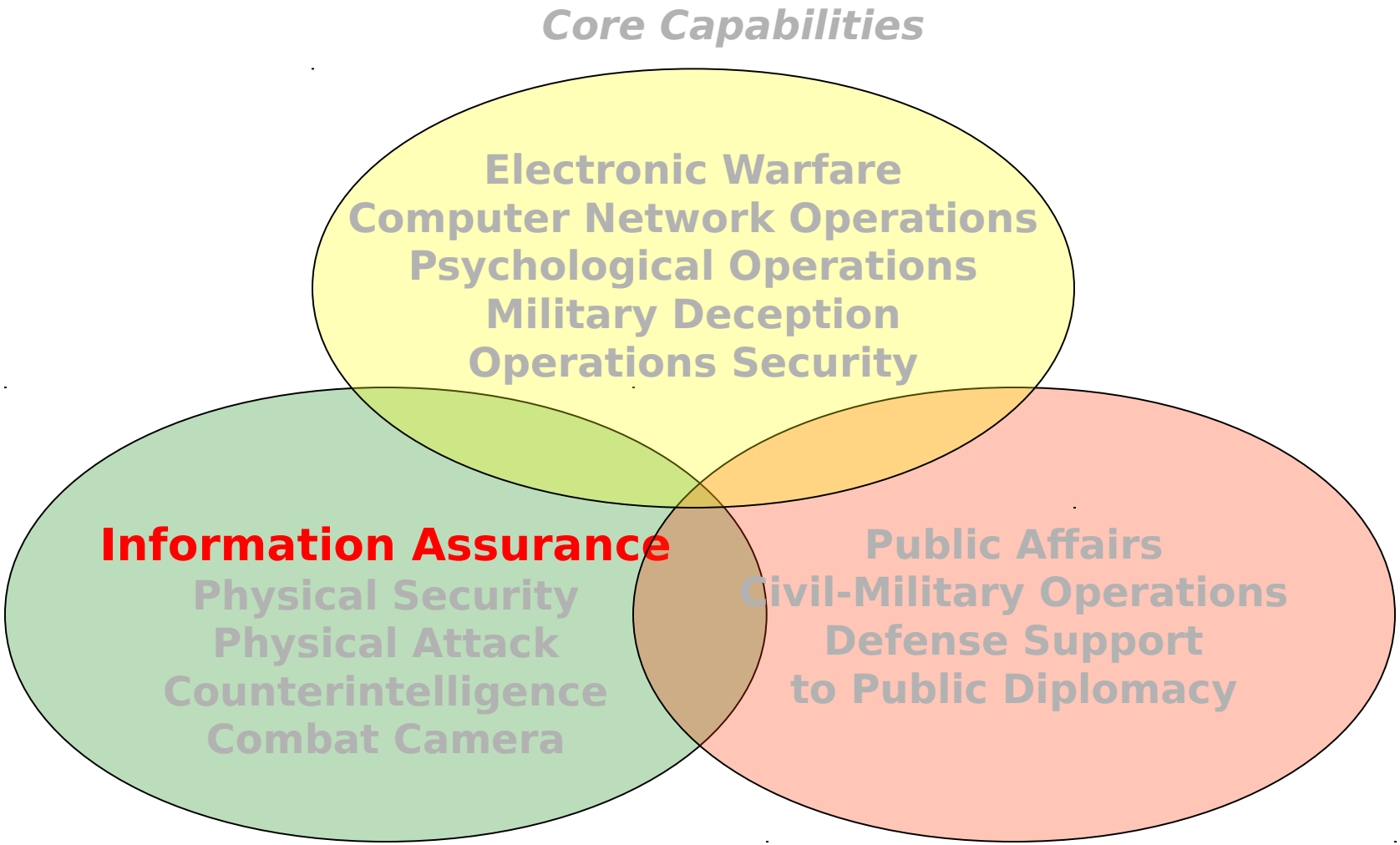
Purpose

To incorporate Information Assurance (IA) as a Special Area of Emphasis (SAE) in the Joint Professional Military Education Curriculum until CJCSI 1800.01C rewrite

NMS-Cyberspace Operatio

- **One of only four National Military Strategies**
- **Secretary of Defense and Chairman, Joint Chiefs of Staff recognize the importance of defensive and offensive cyberspace operations**
- **Strategy outlines the imperative of superiority in the cyberspace domain to achieve operational effects**
  - **Strategy emphasizes the necessity of Leaders that have been educated and understand operational importance of Cyberspace**
- **Information Assurance is a key capability in this strategy**

Joint Information Operations Paradigm



Joint Information Operations

"The integrated employment of electronic warfare (EW), computer network operations (CNO), psychological operations (PSYOP), military deception (MILDEC), and operations security (OPSEC), in concert with specified supporting and related capabilities, to influence, disrupt, corrupt or usurp *adversarial human* and *automated decision making* while *protecting our own*."

Joint Publication 3-13 *"Information Operations"*
13 February 2006

Supporting capabilities are involved in information environment & contribute to effective IO, but serve wider purposes

Joint Information Assurance

“Measures that protect and defend information and information systems by ensuring their availability, integrity, authentication, confidentiality, and nonrepudiation. This includes providing for restoration of information systems by incorporating protection, detection, and reaction capability.

Joint Publication 6-0 *“Joint Communications System”*
20 March 2006

IA PME Imperatives

DoD leadership at all levels must clearly comprehend these key topics to fully support the Information Assurance requirements of their computing environments:

- **DoD's critical reliance on information & Information System (IS) resources**
- **Commitment to protect information & IS resources**
- **Threats, vulnerabilities, and related risks associated w/ IS**
- **Consequences for inadequate protection of IS resources**
- **The essential role of leadership to plan a successful protection program**

Why Does IA Matter? Air, Sea, & Land Battlespace

Joint Warfighters value

- Timely, accurate, secure, and actionable information
- Information sharing capability of the network
- Do not value IA just to have IA, value what IA enables
- All Joint Capability Areas employing National Security Systems (NSS) networks

Operational Impact

- Increased Risk of Mission Failure across the Full ROMO
- Increased Campaign Length
- Increased Campaign Casualties
- Increased Campaign Cost
- Increased Support Cost

Weak IA can not allow the network to continue to be the Department's Achilles heel

the Department's Achilles heel

Proposed Implementation of SAE

- **Recommend SAE integrate into existing framework of the current curriculum**
- **For example:**
  - **Emphasize IA during exercise planning with specific plans required for assured information exchanges for command and control**
    - **How information will be shared and by whom**
    - **Ways to ensure the secure means of command and control for all units**
  - **Line of Communication and Lines of Operations scenarios would include the assured movement of information resources**
    - **Discussion include:**
      - **Secure transit points for information flows**
      - **Secure distribution points**

MECC Approval

- ✓ **Establish IA as a SAE to educate leaders on the criticality of Information Assurance**
  - **Develop leaders at all levels who understand the operational impact of IA on mission accomplishment**
  - **Establish a model for Allies and coalition partners**
  - **Meets new DOD-wide focus on Cyberspace Operations**
- ✓ **Revise CJCSI 1800.01 to meet the recommendation of the Jun 06 JFEC that IA be emphasized in the next revision**
  - **1800.01C published 22 Dec 05**
  - **Next revision scheduled for Dec 07**